### Figure 1(a)

	HHV8PEP	ATPRSR-LATLGTVILLVCFCAGAAHSRGDTFQ
	RHESRHADPEP	
	MURH68PEP	
	BOVINEH4PEP	YYKTILFFALIKVCSFNQTTTHSTTTSPSISSTTSSTTTSTSKPSNTTSTNSSLAASPQ
	ATELINEH3PEP	Q
	SAIMIRIPEP	Q
	EQH2PEP	
	EQH5PEP	MVAWFGLWGFARLMATLALLCGRVALDESSATPSIPP
	ALCELPEP	
	EBVPEP	
		<u> </u>
	HHV8PEP	TSSSPTPPGSSSKAPTKPGEEASGPKSVDFYQFRVCSAS-ITGELFRFNLEQTCPDTK
	RHESRHADPEP	TTAKPTP-GPSTPTPPENPPR-AEAFKFRVCSAS-ATGELFRFNLEKTCPGTE
	MURH68PEP	QPSDMTP-AQDAPTETPPPLSTNTNRGFEYFRVCGVA-ATGETFRFDLDKTCPSTQ
	BOVINEH4PEP	NTSTSKPSTDNQGTSTPTIPTVTDDTAS-KNFYKYRVCSASSSSGELFRFDLDQTCPDTK
	ATELINEH3PEP	TTPASSDENGKTPAIEKEYFK-YRVCSAS-TTGELFRFNLDRACPSTE
	SAIMIRIPEP	TTPTTAVEKNKTQAIYQEYFK-YRVCSAS-TTGELFRFDLDRTCPSTE
ž	EQH2PEP	THRPEVVAEENPANPFLPF-RVCGASPTGGEIFRFPLEESCPNTE
	EQH5PEP	THKPAVHHEDNTTNPFLLF-RVCGASPTG-EIFRFPLEENCPNTE
ž	ALCELPEP	TVSDNIIRQQRNNTAKGIHSDPSAFPFRVCSAS-NIGDIFRFQTSHSCPNTK
	EBVPEP	PAPPATTVQPTATRQQTSFPFRVCELS-SHGDLFRFSSDIQCPSFG
	HHV8PEP	DKY-HQEGILLVYKKNIVPHIFKVRRYRKIATSVTVYRGLTESAITNKYELPRPVPLY
	RHESRHADPEP	DKT-HQEGILMVFKKNIVPHIFKVRRYRKVATSVTVYRGWTETAVTGKQEVIRPVPQY
	MURH68PEP	DKK-HVEGILLVYKINIVPYIFKIRRYRKIITQLTIWRGLTTSSVTGKFEMATQAHEW
	BOVINEH4PEP	DKK-HVEGILLVLKKNIVPYIFKVRKYRKIATSVTVYRGWSQAAVTNRDDISRAIPYN
	ATELINEH3PEP	DKV-HREGILLVYKKNIVPHIFKVRRYKKIATSVRIFNGWSREGVAITNKWELSRAVPKY
	SAIMIRIPEP	DKV-HKEGILLVYKKNIVPYIFKVRRYKKITTSVRIFNGWTREGVAITNKWELSRAVPKY
	EQH2PEP	DKD-HIEGIALIYKTNIVPYVFNVRKYRKIMTSTTIYKGWSEDAITNQHTRSYAVPLY
	EQH5PEP	DKE-HVEGILLIYKTNIVPYIFNVRKYRKLVTSTTIYKGWSQDAITNQYTSSFAMPLW
	ALCELPEP	DKE-HNEGILLIFKENIVPYVFKVRKYRKIVTTSTIYNGIYADAVTNQHVFSKSVPIY
	EBVPEP	TRENHTEGLLMVFKDNIIPYSFKVRSYTKIVTNILIYNGWYADSVTNRHEEKFSVDSY
		1-2
	HHV8PEP	EISHMDSTYQCFSSMKVNVNGVENTFTDRDDVNTTVFLQPVEGLTDNIQRYFSQPVIYAE
	RHESRHADPEP	EINHMDTTYQCFSSMRVNVNGIVNTYTDRDFTNQTVFLQPVEGLTDNIQRYFSQPVLYTT
	MURH68PEP	EVGDFDSIYQCYNSATMVVNNVRQVYVDRDGVNKTVNIRPVDGLTGNIQRYFSQPTLYSE
	BOVINEH4PEP	EISMIDRTYHCFSAMATVINGILNTYIDRDSENKSVPLQPVAGLTENINRYFSQPLIYAE
	ATELINEH3PEP	EINLMDKNYQCHNCMQIEVNGLLNSYCDRDGNNKTVDLKPVDGLTGAITRYVSQPKIFAD
	SAIMIRIPEP	EIDIMDKTYQCHNCMQIEVNGMLNSYYDRDGNNKTVDLKPVDGLTGAITRYVSQFKYFAD
	EQH2PEP	EVQMMDHYYQCFSAVQVNEGGHVNTYYDRDGWNETAFLKPADGLTSSITRYQSQPEVYAT
	EQH5PEP	EARLVDYNYECYNGIQVTENGHLTTYVDRDGYNESVRLVPADGLTSSIRRYHSQPELYVT
	ALCELPEP	ETRRMDTIYQCYNSLDVTVGGNLLVYTDNDGSNMTVDLQPVDGLSNSVRRYHSQPEIHAE
	EBVPEP	ETDQMDTIYQCYNAVKMTKDGLTRVYVDRDGVNITVNLKPTGGLANGVRRYASQTELYDA
		213Q:D111QC:MARMINDGDIRA1ADGAMIIAMGAKIAQIETIDA
	HHV8PEP	PGWFPGIYRVRTTVNCEIVDMIARSAEPYNYFVTSLGDTVEVSPFCYNESSCST-TPSNK
	RHESRHADPEP	PGWFPGIYRVRTTVNCEIVDMIARSAEPYSYFVTALGDTVEVSPFCHNDSTCSV-AEKTE
	MURH68PEP	
	BOVINEH4PEP	PGWMPGFYRVRTTVNCEIVDMVARSMDPYNYIATALGDSLELSPFQTFDNTSQS-TAPKR PGWFPGIYRVRTTVNCEVVDMYARSVEPYTHFITALGDTIEISPFCHNNSQCTTGNSTSR
	ATELINEH3PEP	
	SAIMIRIPEP	AGWLWGTYKTRTTVNCEIVEMFARSADPYTYFVTALGDTVEVSPFCDAENSCPNAS
	EOH2PEP	PGWLWGTYRTRTTVNCEIVDMFARSADPYTYFVTALGDTVEVSPFCDVDNSCPNAT PRNLLWSYTTRTTVNCEVTEMSARSMKPFEFFVTSVGDTIEMSPFLKENGTEPEKILK
	EQH5PEP	PRNLLWSYTTRTTVNCEVIDMTARSHKPFEYFVTSVGDTTEMSPFLKENGTEPEKILK PRNLLWSYTTRTTVNCEVIDMTARSHKPFEYFVTASGDSIETSPFYT-NASRR
	ALCELPEP	
	EBVPEP	PGWLLGGYRRTTVNCEVTETDARAVPPFRYFITNIGDTIEMSPFWSKAWNETEFSGE
		PGWLIWTYRTRTTVNCLITDMMAKSNSPFDFFVTTTGQTVEMSPFYDGKNKETFHE

ALCELPEP EBVPEP

### Figure 1(b)

HHVSPEP NGLSVQVVLNHTVVTYSDRGTSPTPQNRIFVETGAYTLSWASESKTTAVCPLALWKTFPR RHESRHADPEP NGLGARVLTNYTMVDFATR--APTTETRVFADSGEYTVSWKAEDPKSAVCALTLWKTFPR MURH68PEP ADMRVREVKNYKFVDYNNRGTAPAGQSRTFLETPSATYSWKTATRQTATCDLVHWKTFPR **BOVINEH4PEP** DATKVWIEENHQTVDYERRG-HPTKDKRIFLKDEEYTISWKAEDRERAICDFVIWKTFPR DVLSSQVDFNHTVVDYGNRATSQQHGKRIFAHTLDYSVSWEAINKTTSVCSMVFWKGFQR ATELINEH3 PEP SAIMIRIPEP DVLSVQIDLNHTVVDYGNRATSQQHKKRIFAHTLDYSVSWEAVNKSASVCSMVFWKSFOR EOH2PEP RPHSIQLLKNYAVTKYGVGLGQADNATRFFAIFGDYSLSWKATTENSSYCDLILWKGFSN EQH5PEP VP--VQVLYNYSVTDYGVGLGSGENVTRFFATLNDFSISWKAATENSSYCPLVLWKGFPS ALCELPEP PDRTLTVAKDYRVVDYKFRGTQPQGHTRIFVDKEEYTLSWAQQFRNISYCRWAHWKSFDN EBVPEP RADSFHVRTNYKIVDYDNRGTNPQGERRAFLDKGTYTLSWKLENR-TAYCPLQHWQTFDS HHV8PEP SIQTTHEDSFHFVANEITATFTAP---LTPVANFTDTYSCLTSDINTTLNASKAKLASTH RHESRHADPEP AIQTTHEASYHFVANDVTATFTSP---LSEVANFTGTYSCLDEVIQKTLNDTIKKLSDTH MURH68PEP AIQTAHEHSYHFVANEVTATFNTP---LTEVENFTSTYSCVSDQINKTISEYIQKLNNSY BOVINEH4PEP AIQTIHNESFHFVANEVTASFLTSNQEETELRGNTEILNCMNSTINETLEETVKKFNKSH ATELINEH3 PEP AIQTEHDSTYHFIANEITAGFSTS---KETLASFSSEYSCLMSDINSTLTDKIGRVNNTH SAIMIRIPEP AIQTEHDLTYHFIANEITAGFSTV---KEPLANFTSDYNCLMTHINTTLEDKIARVNNTH EQH2PEP AIQTQHNSSLHFIANDITASFSTP--LEEEAN-FNETFKCIWNNTQEEIQKKLKEVEKTH AIQTKHEKSYHFIADAVTASFTTP--LTDETSYFNTTYQCAWQDIEGEIQKRFDPVSKTH EQH5PEP ALCELPEP AIKTEHGKSLHFVANDITASFYTP---NTQTREVLGKHVCLNNTIESELKSRLAKVNDTH EBVPEP TIATETGKSIHFVTDEGTSSFVTN---TTVGIELPDAFKCIEEQVNKTMHEKYEAVQDRY HHV8PEP VP-NGTVQYFHTTGGLYLVWQPMSAINLTHAQ-GDSGNPTSSPPPSASP--------RHESRHADPEP VT-NGSAQYYKTEGGLFLLWQPLTPLSLVDEMRGLNG---TTPAP---P------A MURH68PEP VA-SGKTQYFKTDGNLYLIWQPLEHPEIEDID--EDSDPEPTPAP---P------K BOVINEH4PEP IR-DGEVKYYKTNGGLFLIWQAMKPLNLSEHT----N-YTIER---N-----N ATELINEH3PEP VP-NGTAQYFKTEGGMILVWQPLTAIELEEAMIEATTVSPTPLS-------T SAIMIRIPEP TP-NGTAEYYQTEGGMILVWQPLIAIELEEAMLEATTSPVTPSAP-----T EOH2PEP RP-NGTAKVYKTTGNLYIVWQPLIQIDLLDTHAKLYNLTNATASPTSTP------EQH5PEP AR-NGSVQIYKTSGNLYVVWOPLVOLDLLAAHAKTINSTDNSTSPTTAPN-----TT ALCEL PEP SP-NGTAQYYLTNGGLLLVWQPLVQQKLLDAKGLLDAVKKQQNTTTT------T TKGQEAITYFITSGGLLLAWLPLTPRSLATVKNLTELTTPTSSPPSSPSPPAPSAARGST EBVPEP HHV8PEP TTSASRRKRRSASTAAAGG---GGSTDN-----LSYTQLQFAYDKLRDGINQVLEELSRA TTSTVSRVRRSVNTNEQ------ATDN-----LAAPQLQFAYDKLRASINKVLEELSRA RHESRHADPEP MURH68PEP STRRKREAADNGNSTSEVS---KGSENP-----LITAQIQFAYDKLTTSVNNVLEELSRA BOVINEH4PEP KTGNKSRQKRSVDTKTFQG-----AKG-----LSTAQVQYAYDHLRTSMNHILEELTKT AHLTSRRTGRRKRDVSAG-----SENS-----VLLAQIQYAYDKLRQSINNVLEELAIT ATELINEH3PEP SAIMIRIPEP SSSRSKRAIRSIRDVSAG-----SENN-----VFLSQIQYAYDKLRQSINNVLEELAIT  $-\mathtt{TTSPRRRRDTSSVSGGG---NNGDNSTKEESVAAS} \underline{\mathbf{QVQFAYDNL}}\mathbf{RKSINRVLGELSRA}$ EQH2PEP EQH5PEP TSTSSRRKRRDTGNTATNN---SSSNNSSMEENLATSQVQFAYDQLRKSINRVLEOLSRV ALCELPEP TTTRSRRQRRSVSSGIDDV---YTAEST----ILLTQIQFAYDTLRAQINNVLEELSRA **EBVPEP**  ${\tt PAAVLRRRRDAGNATTPVPPTAPGKSLGTLNNPATV} {\color{red}{\bf QIQFAYDSL}} {\color{blue}{\bf RRQINRMLGDLARA}}$ HHV8PEP WCREQVRDNLMWYELSKINPTSVMTAIYGRPVSAKFVGDAISVTECINVDQSSVNIHKSL RHESRHADPEP WCREQVRDTYMWYELSKINPTSVMTAIYGRPVSAKFVGDAISVTDCVAVDQASVSIHKSL MURHERPEP wcreqvrdtlmwy**elskvnptsvmsaiygkp**vaaryvgdaisvtdciyvdqssvnihqsl **BOVINEH4PEP** WCREQKKDNLMWYELSKINPVSVMAAIYGKPVAVKAMGDAFMVSECINVDQASVNIHKSM ATELINEH3 PEP WCREQVRQTMIWYEIAKINPTSVMTAIYGKPVSAKALGDVISVTECINVDQTSVSIHKSL SAIMIRIPEP WCREQVRQTMVWYEIAKINPTSVMTAIYGKPVSRKALGDVISVTECINVDQSSVSIHKSL EOH2PEP WCREQYRASLMWYELSKINPTSVMSAIYGRPVSAKLIGDVVSVSDCISVDOKSVFVHKNM EOH5PEP WCQNQYRASLMWYELSKINPTSVMSAIYGRPVSAKLVGDVVQISDCITVDQESVFVHRNL WCREQHRASLMWNELSKINPTSVMSSIYGRPVSAKRIGDVISVSHCVVVDQDSVSLHRSM

WCLEQKRQNMVLRELTKINPTTVMSSIYGKAVAAKRLGDVISVSQCVPVNQATVTLRKSM

### Figure 1(c)

HHV8PEP RHESRHADPEP MURH68PEP BOVINEH4PEP ATELINEH3PEP SAIMIRIPEP EOH2PEP EQH5PEP. ALCELPEP EBVPEP

HHV8PEP: ---RHESRHADPEP MURH68PEP **BOVINEH4PEP** ATELINEH3PEP SAIMIRIPEP EQH2PEP EQH5PEP ALCELPEP **EBVPEP** 

₩ нн∨8рер RHESRHADPEP MURH68PEP BOVINEH4PEP ATELINEH3PEP SAIMIRIPEP EOH2PEP EOH5PEP ALCELPEP **EBVPEP** 

N

HHV8PEP RHESRHADPEP MURH68PEP BOVINEH4 PEP ATELINEH3 PEP SAIMIRIPEP EOH2 PEP EOH5 PEP ALCELPEP EBVPEP

HHV8PEP RHESRHADPEP MURH68PEP BOVINEH4 PEP ATELINEH3 PEP SAIMIRIPEP EQH2PEP EQH5PEP ALCELPEP EBVPEP

RTN---SKDVCYARPLVTFKFLNSSNLFTGQLGARNEIILTNNOVETCKDTCEHYFITRN RTS---TPGMCYSRPPVTFRFLNSTTLFKGQLGPRNEIILTDNQVEACKETCEHYFIASN RLQH--DKTTCYSRPRVTFKFINSTDPLTGQLGPRKEIILSNTNIETCKDESEHYFIVGE RTD---DPKVCYSRPLVTFKFVNSTATFRGQLGTRNEILLTNTHVETCRPTADHYFFVKN KTT---MNDVCYSRPPVTFKFVNSSQLFKGQLGARNEILLSESLVENCHQNAEHFFTAKN KTE---NNDICYSRPPVTFKFVNSSQLFKGQLGARNEILLSESLVENCHQNAETFFTAKN KVPG--KEDLCYTRPVVGFKFINGSELFAGQLGPRNEIVLSTSQVEVCQHSCEHYFQAGN RVPG--SKDLCYTRPVVGFKFINGSELFVGQLGARNEILLSTNLVEVCQHSCEHYFQGGN RVPGRDKTHECYSRPPVTFKFINDSHLYKGQLGVNNEILLTTTAVEICHENTEHYFOGGN RVPG--SETMCYSRPLVSFSFINDTKTYEGQLGTDNEIFLTKKMTEVCQATSQYYFQSGN

ETLVYKDYAYLKTINTTDISTLNTFIALNLSFIQNIDFKAIELYSSAEKRLASSVFDLET VTYYYKDYVFVKKINTSEISTLGTFIALNLSFIENIDFRVIELYSRAEKKLSGSV**FDIET** YIYYYKNYIFEEKLNLSSIATLDTFIALNISFIENIDFKTVELYSSTERKLASSVFDIES MTHYFKDYKFVKTMDTNNISTLDTFLTLNLTFIDNIDFKTVELYSETERKMAS-ALDLET ETYHFKNYLHVETLPLTNISTLDTFLALNLTFIENIDFKAVELYSSGERKLAN-VFDLET ETYHFKNYVHVETLPVNNISTLDTFLALNLTFIENIDFKAVELYSSGERKLAN-VFDLET QMYKYKDYYYVSTLNLTDIPTLHTMITLNLSLVENIDFKVIELYSKTEKRLSN-VFDIET HIYKYKNYEYVSTMNLTDVPTLHTMITLNLSLVENVDFQVIQLYSQKEKKLSN-VFDIET NMYFYKNYRHVKTMPVGDVATLDTFMVLNLTLVENIDFQVIELYSREEKRMST-AFDIET EIHVYNDYHHFKTIELDGIATLQTFISLNTSLIENIDFASLELYSRDEQRASN-VFDLEG

MFREYNYYTHRLAGLREDLDNTIDMNKERFVRDLSEIVADLGGIGKTVVNVASSVVTLCG MFREYNYYTQRLAGLREDLDNTIDLNRDRLARDLSEIVADLGDVGRTVVNVASSVITLFG MFREYNYYTYSLAGIKKDLDNTIDYNRDRLVQDLSDMMADLGDIGRSVVNVVSSVVTFFS MFREYNYYTQKLASLREDLDNTIDLNRDRLVKDLSEMMADLGDIGKVVVNTFSGIVTVFG MFREYNYYAQSISGLRKDFDNSQRNNRDRIIQDFSEILADLGSIGKVIVNIASSAFSLFG MFREYNYYAQSISGLRKDFDNSQRNNRDRIIQDFSEILADLGSIGKVIVNVASGAFSLFG MFREYNYYTQNLNGLRKDLDDSIDHGRDSFIQTLGDIMQDLGTIGKVVVNVASGVFSLFG MFREYNYYTQNLKGLRKDLDDSIHDGRDSFIQFLGDLVQDLVPVGDVIVNVASGVFSLFG MFREYNYYTQRVTGLRRDLTD-LATNRNQFVDAFGSLMDDLGVVGKTVLNAVSSVATLFS IFREYNFQAQNIAGLRKDLDNAVSNGRNQFVDGLGELMDSLGSVGQSITNLVSTVGGLFS

SLVTGFINFIKHPLGGMLMIIIVIAIILIIFMLSRRTNTIAQAPVKMIYP----DVDRRA SIVSGFINFIKSPFGGMLMILVIVAVVLIVFALNRRTNAIAQAPIRMIYP----DIDKMO SIVTGFIKFFTNPLGGIFILLIIGGIIFLVVVLNRRNSQFHDAPIKMLYPSVENYAARQA SIVGGFVSFFTNPIGGVTIILLLIVVVFVVFIVSRRTNNMNEAPIKMIYP----NIDKAS GIVTGILNFIKNPLGGMLTFLLVGAIIILVILLVRRTNNMSQAPIRMIYP----DIEKSR GIVTGILNFIKNPLGGMFTFLLIGAVIILVILLVRRTNNMSQAPIRMIYP----DVEKSK SIVSGVISFFKNPFGGMLLIVLIIAGVVVVYLFMTRSRSIYSAPIRMLYP----GVERAA SIVSGVISFLKNPLGAILTIALIVGGIIVLYLFITRSRTVYQAPIRMLYP----EVDRAP SIVSGIINFIKNPFGGMLLFGLIAAVVITVILLNRKAKRFAQNPVQMIYP----DIKTIT SLVSGFISFFKNPFGGMLILVLVAGVVILVISLTRRTRQMSQQPVQMLYP----GIDELA

PP-----SGGAPTREEIKNILLGMHQLQQ----ERQKADDLKKSTPSVFQRTANGLR P-----SGGKVDQEQIKNILAGMHQLQQ----EERRRLDEQQRSAPSLFRRASDGLK PPPYSA---SPPAIDKEEIKRILLGMHQVHQ----EEKEAQKQLTNSGPTLWQKATGFLR EQE----SEHGKSEEEASHKPGLFQLLGDGLQ S-----SVTPTEPEVIKQILLGMHNMQQ----EEYKKREEHKASQPSFLKRATDAFL S-----EAYKKKEEQRAARPSIFRQAAETFL QEP-----GAHPVSEDQIRNILMGMHQFQQRQRAEEEARREEEVKGKRTLFEVIRDSAT QQ-----NVQPIPEDQVRSILLAMHQFQQQQQQQQQQQQEEHTQ-RRSIFDTIRESTS SQREEL---QVDPISKHELDRIMLAMHDYHASK--QPESKQDEEQGSTTSGPADWLNKAK QQHASGEGPGINPISKTELQAIMLALHEQNQ-----EQKRAAQRAAGPSVASRALQAAR

					GTATCAGGTG	
					TACAGCGACC	
					CCATGGTGAA	180
AGAGGAAACA	ACGAAAACAG	AGATTCAGAA	GAGCAAAATA	AAAACATTTA	TGGATCGCCT	240
TCTACGTTTC	CTTACAGAGT	ATGCAGTGCC	TCCGGAGTTG	GAGATGTCTT	TAGATTTCAG	300
ACCGACCATG	TGTGTCCCGA	TGCCAGTGAT	ATGGTACACA	GTGAGGGGAT	TCTACTAATT	360
TACAAACAGA	ACATTATTCC	ATTTATGTTT	AGAGTTAGGA	AATATAGAAA	AGTTGTTACA	420
ACAAGTACTG	TCTACAATGG	TATTTATTCT	GACTCTATTA	CCAACCAACA	TACTTTCTAT	480
AAATCAATCG	AACCTTGGGA	GACAGAAAAG	ATGGACACAA	TATATCAGTG	TTTTAATTCT	540
TTAAGACTAA	ACACAGGTGG	AAATCTGCTT	ACTTATGTAG	ATAGAGATGA	TATAAATATG	600
ACAGTGTTTC	TGCAACCTGT	TGACGGTGTG	ACGCCCGATG	TGAAGAGGTA	TGGCAGTCAA	660
CCAGAGCTGT	ACCTTGAACC	TGGCTGGTTT	TGGGGTAGTT	ATAGAAGACG	AACTACAGTG	720
AACTGTGAAC	TAATGGACAT	GTTTGCAAGA	TCAAATCCTC	CATTTGATTT	CTTTGTTACA	780
GCTACAGGTG	ATACGGTGGA	AATGTCTCCA	TTTTGGAGTG	GTGAAGATGA	TCATGAAAAT	840
AAGATGCACG	AGAAGCCATG	GTTTGTTAGT	GTGATAAATA	ACTACAAGGT	GGTGGACTAT	900
CAAAACAGAG	GGACTGTACC	CCTTGGAAAA	ACAAGGATAT	TTCTAGATAG	GGAAGAGTAT	960
ACATTATCTT	GGGAAAAGCA	TCTAAAAAAT	ATGTCATATT	GTCCACTAAC	ATTATGGAAA	1020
GCATTTTACA	ATGGAATCCA	GACGGAGCAT	TCAGGCTCAT	ATCATTTTGT	AGCCAATGAC	1080
ATCACAGCGT	CATTCACAAC	TAGTAAAGAA	GACATGAAAG	AGTTCAATAC	GACATATCAT	1140
TGTCTCAACG	AGGAAATAAA	GGCAGAAATA	GAGAAGAAAT	ATGCAAAAGT	AAACTCAACT	1200
CACTCTAAAT	ATGGAGATCT	GAAATACTTT	AAAACAGATG	GGGGTCTCTA	TTTAGTCTGG	1260
CAACCTCTTA	TTCAAAACAG	GCTTCTTGAT	GCTAAGAACA	AACTGAACAA	TGAGACTTAT	1320
TCCAGGAGAT	CACGACGTCA	GGCAGAATCT	ACTACTGACC	CAATGATGGA	GATGACTGGA	1380
AATGGAGCAG	GTGGAGAATA	TAGCAGTGAA	AATTCAATCA	CGGTGGCGCA	GGTGCAGTAT	1440
GCCTATGACA	ATCTTCGTAT	CAGAATAAAT	AACATTTTGG	AAGATTTGTC	AAAGGCATGG	1500
TGTCGTGAGC	AGCATAGAGC	TGCTCTGGTG	TGGAATGAGC	TCAGCAAGAT	TAATCCCACA	1560
AGCGTCATGA	GCATGATTTA	CAATAGACCC	GTATCAGCCA	AAAGAATAGG	AGATGTCATT	1620
TCAGTCTCTA	ACTGTATTGT	GGTAGACCAA	ACCAGTGTCT	CATTACATAA	AAGTCTCAGG	1680
CTTCTCAGTG	CATCGGATGA	AAAGTGCTTC	TCTAGACCTC	CAGTGACATT	TAAGTTTATG	1740
AATGACAGTA	CTATTTACAA	AGGGCAACTA	GGAGTCAATA	ATGAGATTCT	CTTAACCACA	1800
ACATACCTTG	AAACATGTCA	GGAAAACACT	GAGTATTACT	TTCAGGCAAA	GACAGACATG	1860
TACATTTACA	AAAACTATGA	GCATTTGAAG	ACTGTGCCTT	TATCTTCGAT	CACCACACTA	1920
GATACATTTA	TAGCCCTTAA	TTTTACACTA	TTGGAGAATG	TTGACTTTAA	AGTCATTGAA	1980
CTTTATACCA	GGGACGAGAA	GAGGCTTAGT	AATGTCTTTG	ACATTGAAAC	AATGTTTAGG	2040
GAATATAACT	ACTATGCTCA	GAGGGTCAGT	GGCCTCAGAA	AGGATTTGCT	GGATCTAAGC	2100
ACCAATAGAA	ATCAATTTGT	GGATGCATTT	GGTAGTCTTA	TGGATGATTT	GGGTGCTGTT	2160
					AATTGTAACA	
GGATTTATTA	ATTTCATTAA	AAACCCATTT	GGTGGAATGT	TAATGATTAT	TGTTGTTATT	2280
GGTGTGCTAT	TTGCCATCTA	CTTTCTGACC	AAAAAGACGA	AGATATATGA	GACGGCACCG	2340
					ATCAGAAATA	
GCACCAATCA	GTGAAGAAGA	GCTGGAGAGA	ATTGTACTTG	CTATGCACAT	CCATCAACAA	2460
					AACAAGGGCA	
		ATCAGGATAT	TCTAATTTAA	AAAATGCTGA	ATCTGTGGAG	2580
ATGTTAAACA	CTTTATAA					2598

MAGSLKLRGS	VLALWYLYQV	ALYSLSIAET	GVTSPPNTAT	WSTESPLTGH	50
YGTHDSSHGE	RGNNENRDSE	EQNKNIYGSP	STFPYRVCSA	SGVGDVFRFQ	100
TDHVCPDASD	MVHSEGILLI	YKQNIIPFMF	RVRKYRKVVT	TSTVYNGIYS	150
DSITNQHTFY	KSIEPWETEK	MDTIYQCFNS	LRLNTGGNLL	TYVDRDDINM	200
TVFLQPVDGV	TPDVKRYGSQ	PELYLEPGWF	WGSYRRRTTV	NCELMDMFAR	250
SNPPFDFFVT	ATGDTVEMSP	FWSGEDDHEN	KMHEKPWFVS	VINNYKVVDY	300
QNRGTVPLGK	TRIFLDREEY	TLSWEKHLKN	MSYCPLTLWK	AFYNGIQTEH	350
SGSYHFVAND	ITASFTTSKE	DMKEFNTTYH	CLNEEIKAEI	EKKYAKVNST	400
HSKYGDLKYF	KTDGGLYLVW	QPLIQNRLLD	AKNKLNNETY	SRRSRRQAES	450
TTDPMMEMTG	NGAGGEYSSE	NSITVAQVQY	AYDNLRIRIN	NILEDLSKAW	500
CREQHRAALV	WNELSKINPT	SVMSMIYNRP	VSAKRIGDVI	SVSNCIVVDQ	550
TSVSLHKSLR	LLSASDEKCF	SRPPVTFKFM	NDSTIYKGQL	GVNNEILĻTT	600
TYLETCQENT	EYYFQAKTDM	YIYKNYEHLK	TVPLSSITTL	DTFIALNFTL	650
LENVDFKVIE	LYTRDEKRLS	NVFDIETMFR	EYNYYAQRVS	GLRKDLLDLS	700
TNRNQFVDAF	GSLMDDLGAV	GQTVVNAVSG	VATLFSSIVT	GFINFIKNPF	750
GGMLMIIVVI	GVLFAIYFLT	KKTKIYETAP	IKMIYPEIDK	LKEREGKSEI	800
APISEEELER	IVLAMHIHQQ	NSHMETKTRK	DPKDSILTRA	QNMLRKRSGY	850
SNLKNAESVE	MLNTL				865

	pGHV-gpB DNA.txt pGHV1 DNA.641-1300)	CGCCGCCGTC			TCGTÀTCAGA TGGAGCCCGA		25 688
					T G C GA	A C	
	pGHV-gpB DNA.txt pGHV1 DNA.(641-1300)				GTGAGCAGCA ACGGAGGGGA		75
	penvi bia. (641-1300)		T G CA G		G G A		737
	pGHV-gpB DNA.txt	CTGGTGTGGA	ATGAGCTCAG	CAAGATTAAT	CCCACAAGCG	тсатсассат	125
	pGHV1 DNA. (641-1300)				CGCACAAGT-		776
	. 10.	CT T A	A GAG CA	C G	C CACAAG	TCA G C	
	pGHV-gpB DNA.txt				AGAATAG-GA		172
	pGHV1 DNA. (641-1300)	AT TAC A	AGA C A		CGTGTGGTCC G T G	GGGAGCACGT G CA T	826
		•	•	,			
	pGHV-gpB DNA.txt pGHV1 DNA.(641-1300)				AAACCAGTGT GCGTGCCCGT		219
Ž.	penvi DNA: (041-1300)		C G A G	T AGACC		C C T CA	876
ar.	TOTAL CORP. TOTAL back	3 3 3 3 CMCMC3	GCCTTTCTC AC	maga magaa m	GAAAAGTGCT	mamama aa aa	252
3	pGHV-gpB DNA.txt pGHV1 DNA.(641-1300)				GGCAAGTGCG		269 922
and the same of		A A TC C	C T G	C CG	G AAGTGC	TCTC A A	
4	pGHV-gpB DNA.txt				ACAGTACT-A		314
rF T	pGHV1 DNA. (641-1300)	CCGAGT-ACG C AGT AC	TGCGCAACAA T AA		ACCGCCTTCG AC G T	ACCGCGACGA C AG	971
17	pGHV-gpB DNA.txt	GCAACTAG	GAGTCAATAA	TGAGATTCT-	CTTAAC	CACAACA	354
_	pGHV1 DNA. (641-1300)				GCGCCTGAAC		1021
	* * * * * * * * * * * * * * * * * * *	GAC	GAG	TG G CT	CT AAC	СС	
te ·	pGHV-gpB DNA.txt				ACACTGAGTA		395
1	pGHV1 DNA. (641-1300)	C C TG	ACA C	A GA A	ACACCAAGAT ACAC AG	C C	1071
GWE	pGHV-gpB DNA.txt				CTAT		439
2	pGHV1 DNA. (641-1300)	GGCTTCTAC- GGC AC	CACACGGGCA ACA G CA		CTGCATCGTC CT AT	GAGGAGGTGG GAG A TG	1120
	pGHV-gpB DNA.txt	AGAC	TGTGCCTT	TATCT	TCGATCACCA	CACTAGATAC	476
	pGHV1 DNA. (641-1300)	AGGCGCGCTC	CGTGTACCCC	TACGACTCCT	TCGCCCTGTC		1170
		AG C	TGT CC	TA CT	TCG C	CAC G AC	
	pGHV-gpB DNA.txt				TTGGAGAATG		521
	pGHV1 DNA. (641-1300)	ATTGTGTACA ATT TA A	TGTCCCCCTT C TT	CTACGGCCTG TAC T	CGCGAGGGGG GAG G	CCCACGGGGA AC A	1220
		AII IAA	C II	IAC I	GAG G	AC A	
	pGHV-gpB DNA.txt				AG-AAGAGGC		564
	pGHV1 DNA. (641-1300)	GCACATCG-G CAT G	CTACGCGCCC CT CC	GGGCGCTTCC GGG C	AGCAGGTGGA AG G GG	GCACTACTAC A TA A	1269
	pGHV-gpB DNA.txt	GTCTTTGACA	TTGAAACAAT	G	585		
	pGHV1 DNA. (641-1300)	CCCATCGAC-	CTGGACTCGC	GCCTCCGCGC			
		C T GAC	TG A	G			

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	pGHV-gpB prot							4
	PGHV1Prot. (491-850)		PAAPAAARRA	RRSPGPAGTP	EPPAVNGTGH	LRITTGSAEF LRI	ARLQFTYDHI	540
	pGHV-gpB prot		RINNILED	LSKAWCREQH	RAALVWNELS	KINPTSVMSM	IYNRPVSAKR	52
	PGHV1Prot. (491-850)		OAHVNDMLGR	IAAAWCELON	KDRTLWSEMS	RLNPSAVATA	ALGORVSARM	590
	manager .	-	N L	AWC Q	WES		VSA	
	pGHV-gpB prot		IGDVISVSNC	IVVDQTSVSL	HKSLRLLSAS	DEKCFSRPPV	TFKFMNDSTI	102
	PGHV1Prot. (491-850)		LGDVMAISRC	VEV-RGGVYV	QNSMR-VPGE	RGTCYSRPLV	TFE-HNGTGV	637
			GDV S C	v v	SR	C SRP V		
	The second secon		_					
	pGHV-gpB prot		YKGOLGVNNE	ILLTTTYLET	COENTEYYFO	AKTOMYIYKN	YEHLKTVPLS	152
	PGHV1Prot. (491-850)							687
	***************************************		GOLG NE		C N YF	Y	Y V	00,
			0220 112			-	•	
	pGHV-gpB prot		SITTLDTFIA	LNFTLLENVD	FKVIELYTRD	E	KR	185
	PGHV1Prot. (491-850)		ETTSTRVT	LNUTLLEDRE	FLPLEVYTRE	ELADTGLLDY	SETORRNOLH	735
•			т	LN TLLE	F E YTR	E	R	,,,,
			-			-	••	
	pGHV-qpB prot				. <b></b>			185
	PGHV1Prot. (491-850)		ALKEYDTDRV	VKVDHNVVI.I.	RGTANFFOGT.	GDVGAAVGKV	VIGATGAVIS	785
	77.			***************************************	NOTITE T QUE	02.0121.011	. 20.110111 10	, 03
	pGHV-gpB prot		IS	NVF				190
	PGHV1Prot. (491-850)		AVCCMVSRT.S	NPFGALAIGL	INTACINAAR	T.AVPHTCDT.P	DNDMKAT.VDV	835
	1011711100. (491 030)			N F	T. TUCOPANT	IMIKIIIDKIIK	KATIMENDIE	033
	•		10					
	pGHV-qpB prot		DI	ETM	195			
	PGHV1Prot. (491-850)		TTKTLKEDGV		850			
	EGIIVIEIOC. (491-650)		IIKIBKEDGV	DEGLA	830			

	pGHV-gpB DNA.txt pGHV2 DNA.txt				ACTCTACCCT		50
	pGHV-gpB DNA.txt pGHV2 DNA.txt				GATATTCTGA		5 100
	pGHV-gpB DNA.txt pGHV2 DNA.txt		ATACCGTGTA		GATTTGTCAA TAGGAG-CAG A G CA		53 146
	pGHV-gpB DNA.txt pGHV2 DNA.txt	TCTATACTCG	GCACGCT	GCTGTCT	GGAATGAGCT AG-ATG-GCT G ATG GCT	CAGGAAGAGA	102 188
	pGHV-gpB DNA.txt pGHV2 DNA.txt	AAGGAA	GTGAAGGCGC	GCATGAAACG	CAAT-AGACC CTGTGAGGAC C T AG C	CCTATGTTGG	149 234
THE REAL PROPERTY.	pGHV-gpB DNA.txt pGHV2 DNA.txt	C-ACTG-AT-		-AGCAGCAGC	TAACTGTATT TTGCCCTC T C T		199 274
	pGHV-gpB DNA.txt pGHV2 DNA.txt			GGCTTCA	CGGGAGCC-G	TGCATCGGAT TGCA-CGG-T TGCA CGG T	
	pGHV-gpB DNA.txt pGHV2 DNA.txt		TGTCTCCC		TTTAAGTTTA TCCATCA T A T A	CCAGC-ATAG	299 357
H Um. True	pGHV-gpB DNA.txt pGHV2 DNA.txt	GGCGGGAC	AAAGGGCAAC ATGCT A GC	TAGGCA-	TAATGAGATT -GACGAG-TG A GAG T	ACTTTATCAA	349 394
	pGHV-gpB DNA.txt pGHV2 DNA.txt		$\mathtt{T}\mathtt{TCGT}$		CTGAGTATTA CG C		399 420
	pGHV-gpB DNA.txt pGHV2 DNA.txt		TGTACATTTA		GAGCATTTGA	AGACTGTGCC	449 420
	pGHV-gpB DNA.txt pGHV2 DNA.txt				TATAGCCCTT		499 420
	pGHV-gpB DNA.txt pGHV2 DNA.txt				AACTTTATAC	CAGGGACGAG	549 - 420
	pGHV-gpB DNA.txt pGHV2 DNA.txt	AAGAGGCTTA	GTAATGTCTT			585 420	

pGHV-gpB prot											50
pGHV2 prot.txt	SIMI	ANNL		Ç	YSTLI	- LNDEÎ	VTG	<del>-</del>	IDE		25
	ΙI	N L		C.	~ , _ L	'L	T		-		
		, ,	•						" -"	_	,
GHV-gpB prot											100
pGHV2 prot.txt	KDI	LTVH	7	MKNTV	,			YR	FVRSS		45
_	K D	v.	7	7 V	•	* * /			F S		
				~ * ~		-	~				
GHV-gpB prot	~ <b>TIY</b>	KGÖL .	GV-NN	BILLT"	TTYLETCOE	TEYT	QAKTD	MYI	-YKN- ·	1 1	142
pGHV2 prot.txt	VRESIL	GTLL	SRWLE	RKRKEV	KARMKRCED	P MLALI	LDKQQ	LALKV	TCNAF		95
,	I	L	- 4		C		K				
GHV-gpB prot	YEHLKIY	/P	LSSIT	TLDTF	IALNFTLL-	E NVDFK	VIELY	TRD	-EK-R		185
GHV2 prot.txt	YGFTGAV	/HGL	LPCLP	LAASI	TSIGRDMLR	TSDFI	NNVLS	SREYVS	SEKFS		145
-	Y 7	7	L		L	DF	L	R	EK		
GHV-gpB prot	L	SNV-E	FDI	ETM-	195						
GHV2 prot.txt	L	SDGDE	OGDF	SPEC	159						
-	L	S E	? D								

	pGHV-gpB AF118399		AATCTTCGTA	TCAGAATAAA	TAACATTTTG	GAAGATTTGT	CAAAGGCATG	50
	pGHV-gpB AF118399		GTGTCGTGAG	CAGCATAGAG	CTGCTCTGGT	GTGGAATGAG	CTCAGCAAGA	100
	pGHV-gpB AF118399		TTAATCCCAC	AAGCGTCATG	AGCATGATTT	ACAATAGACC	CGTATCAGCC	150
	pGHV-gpB AF118399		AAAAGAATAG	GAGATGTCAT	TTCAGTCTCT	AACTGTATTG	TGGTAGACCA	200
	pGHV-gpB AF118399		AACCAGTGTC	TCATTACATA	AAAGTCTCAG	GCTTCTCAGT	GCATCGGATG	250
	pGHV-gpB AF118399		AAAAGTGCTT	CTCTAGACCT	CCAGTGACAT	TTAAGTTTAT TAAT T AT		300 14
100 miles	pGHV-gpB AF118399	DNA.txt	-CTACCC-TA		AGGA-GTCAA AAGACCTGCA A GA T A	TAAATATCCT		349 62
	pGHV-gpB AF118399	DNA.txt			CAGGAAAACA			399 83
	pGHV-gpB AF118399	DNA.txt			CAAAAACTAT			449 95
"I'" I'" II A	pGHV-gpB AF118399				TAGATACATT			499 99
The state of the s	pGHV-gpB AF118399				AAAG GTAAAAAAAC AAA		ATCTCTTCTG	534 139
	pGHV-gpB AF118399				GGGACG GCTGGCTAAG G GG A G	AGAAAAATGA		555 189
	pGHV-gpB AF118399			TGTGCTGACC	GACA-TTGA- CAAAGCTCAG A A T A			585 238
	pGHV-gpB AF118399	DNA DNA.txt	CAGCTTGCAA	TTAAGGTGAC	ATGCAATGCT	GTGTATGGGT	TCACTGGTGT	585 288
	pGHV-gpB AF118399	DNA DNA.txt	TGCATCTGGT	ATGCTGCCCT	GTCTCAAGAT	TGCAGAGACC	ATAACTATGC	585 338
	pGHV-gpB AF118399			CATGTTGGAA	AAGACAAAAG	TATTTGTAGA	GAATTTAAGT	585 388
	pGHV-gpB AF118399				CTGTAAGGTT			585 438
	pGHV-gpB AF118399		AAACAGCATT	GATAAACCCT	TCAAGGTG	58 <b>5</b> 466		

	pGHV-gpB AF118401		GAGGACCTGC	ATAA	GTATCC	TCAATTAAAG	GAGGATGATT	ATGAAACATT	50
	pGHV-gpB AF118401						AATCTTC AAAAAAACAC AA C		100
	pGHV-gpB AF118401			TT			ATGGTGTCGT		
	pGHV-gpB AF118401						AGATTAATCC -GCT G C		125
	pGHV-gpB AF118401						GCCAAAAGAA GCCAAGAGAA		
The state of	pGHV-gpB AF118401	DNA DNA.txt	AGG AAAGGAATTG AGG	ACAG			GCTCAGGACA CA	ATTTTAGATA	
	pGHV-gpB AF118401	DNA DNA.txt	CAGTC AACAGCAGCT CAG			GTGACATGCA	TTG-TG-GTA ATGCTGTGTA TG TG GTA	TGGATTCACT	
	pGHV-gpB AF118401	DNA DNA.txt	GGTGTTGCAT A			GCCATGTCTC	AAGATTGCAG		302
ri Li	pGHV-gpB AF118401	DNA DNA.txt				TGGAAAAGAC	AAAAGT~-CT AAAAGTATTT AAAAGT T		352
	pGHV-gpB AF118401			AGAT	CTCCGT		-GCTTCTC AGGTTGGCTC G TT CTC		401
ē (arī	pGHV-gpB AF118401			A	-ACG	TG	ATTTACAAAG -TTT TTT		
	pGHV-gpB AF118401						ATACCTTGAA		
	pGHV-gpB AF118401		AAAACACTGA	GTAT	TACTTT	CAGGCAAAGA	CAGACATGTA	CATTTACAAA	423 423
	pGHV-gpB AF118401	DNA.txt					TCTTCGATCA		423
	pGHV-gpB AF118401 pGHV-gpB	DNA.txt					GGAGAATGTT		423
		DNA.txt DNA		TG	585				

```
Query:
              1970
                  aagtcattgaactttataccagggacgagaagaggcttagtaatgtctttgacattgaaa 2029
                   Sbjct:
              18669 aagtaatagaactatactctagagaagagaagaggatgagcactgcatttgatatagaga 18728
              2030 caatgtttagggaatataactactatgctcagagggtcagtggcctcagaaaggatttgc 2089
  Query:
                   Sbjct:
              18729 ccatgtttagagaatacaactactacacagagggtcactggcctgcggagggacttga 18788
  Query:
                  tggatctaagcaccaatagaaatcaatttgtggatgcatttggtagtcttatggatgatt 2149
                          Sbjct:
              18789 cagacctagctacaaacagaaatcaatttgtagatgcctttggcagcctcatggacgact 18848
  Query:
                  tgggtgctgttgggcagacagttgtaaatgctgtaagtggtgtggctacgctgtttagct 2209
                   18849 tgggggtcgtggggaaaacggtgttgaatgctgtgagcagtgtggccacactcttcagct 18908
  Sbjct:
  Query:
                  caattgtaacaggatttattaatttcattaaaaacccatttggtggaatgtt 2261
                   Sbjct:
              18909 ctatagtctcagggatcatcaatttcattaaaaacccctttgggggaatgtt 18960
that that was the training that the
  Score = 91.1 bits (47), Expect = 7e-16
  Identities = 117/152 (76%), Positives = 117/152 (76%)
  Query:
                  tggtgtcgtgagcagcatagagctgctctggtgtggaatgagctcagcaagattaatccc 1557
                  Sbjct:
              18194 tggtgccgtgagcagcaccgagcctctctcatgtggaacgagctaagcaaaatcaaccct 18253
The first water than
 Query:
                  acaagcgtcatgagcatgatttacaatagacccgtatcagccaaaagaataggagatgtc 1617
                  Sbjct:
              18254 accagtgtgatgagctctatatacgggcggccagtatctgccaaaagaattggagatgtg 18313
  Query:
                  atttcagtctctaactgtattgtggtagacca 1649
                  18314 atatctgtctctcactgtgtggtggtggacca 18345
  Sbjct:
```

### Figure 11(a)

gi 2337975 (AF005370) glycoprotein B [Alcelaphine herpesvirus 1] Length = 854Score = 953 bits (2437), Expect = 0.0Identities = 463/804 (57%), Positives = 589/804 (72%), Gaps = 26/804 (3%) Query: 74 KNIYGSPSTFPYRVCSASGVGDVFRFQTDHVCPDASDMVHSEGILLIYKQNIIPFMFRVR 133 K I+ PS FP+RVCSAS +GD+FRFQT H CP+ D H+EGILLI+K+NI+P++F+VR Sbjct: 55 KGIHSDPSAFPFRVCSASNIGDIFRFQTSHSCPNTKDKEHNEGILLIFKENIVPYVFKVR 114 Query: 134 KYRKVVTTSTVYNGIYSDSITNQHTFYKSIEPWETEKMDTIYQCFNSLRLNTGGNLLTYV 193 KYRK+VTTST+YNGIY+D++TNQH F KS+ +ET +MDTIYQC+NSL + GGNLL Y Sbjct: 115 KYRKIVTTSTIYNGIYADAVTNQHVFSKSVPIYETRRMDTIYQCYNSLDVTVGGNLLVYT 174 Query: 194 DRDDINMTVFLQPVDGVTPDVKRYGSQPELYLEPGWFWGSYRRRTTVNCELMDMFARSNP 253 D D NMTV LQPVDG++ V+RY SQPE++ EPGW G YRRRTTVNCE+ + AR+ P Sbjct: 175 DNDGSNMTVDLQPVDGLSNSVRRYHSQPEIHAEPGWLLGGYRRRTTVNCEVTETDARAVP 234 Query: 254 PFDFFVTATGDTVEMSPFWSGEDDHENKMHEKPWFVSVINNYKVVDYQNRGTVPLGKTRI 313 PF +F+T GDT+EMSPFWS + E ++V +Y+VVDY+ RGT P G TRI Sbjct: 235 PFRYFITNIGDTIEMSPFWSKAWNETEFSGEPDRTLTVAKDYRVVDYKFRGTQPQGHTRI 294 Query: 314 FLDREEYTLSWEKHLKNMSYCPLTLWKAFYNGIQTEHSGSYHFVANDITASFTTSKEDMK 373 F+D+EEYTLSW + +N+SYC WK+F N I+TEH S HFVANDITASF T Sbjct: 295 FVDKEEYTLSWAQQFRNISYCRWAHWKSFDNAIKTEHGKSLHFVANDITASFYTPNTQTR 354 Query: 374 EFNTTYHCLNXXXXXXXXXXXXXXXXXINSTHSKYGDLKYFKTDGGLYLVWQPLIQNRLLDAKN 433 + CLN VN THS G +Y+ T+GGL LVWQPL+Q +LLDAK Sbjct: 355 EVLGKHVCLNNTIESELKSRLAKVNDTHSPNGTAQYYLTNGGLLLVWQPLVQQKLLDAKG 414 Query: 434 KLN-----NETYSRRSRRQAESTTDPMMEMTGNGAGGEYSSENSITVAQVQYAYDN 484 T + RSRRQ S + +G Y++E++I + Q+Q+AYDSbjct: 415 LLDAVKKQQNTTTTTTTTRSRRQRRSVS-----SGIDDVYTAESTILLTQIQFAYDT 466 Query: 485 LRIRINNILEDLSKAWCREQHRAALVWNELSKINPTSVMSMIYNRPVSAKRIGDVISVSN 544 LR +INN+LE+LS+AWCREQHRA+L+WNELSKINPTSVMS IY RPVSAKRIGDVISVS+ Sbjct: 467 LRAQINNVLEELSRAWCREQHRASLMWNELSKINPTSVMSSIYGRPVSAKRIGDVISVSH 526 Query: 545 CIVVDQTSVSLHKSLRLLSA-SDEKCFSRPPVTFKFMNDSTIYKGQLGVNNEILLTTTYL 603 C+VVDQ SVSLH+S+R+ +C+SRPPVTFKF+NDS +YKGQLGVNNEILLTTT + Sbjct: 527 CVVVDQDSVSLHRSMRVPGRDKTHECYSRPPVTFKFINDSHLYKGQLGVNNEILLTTTAV 586 Query: 604 ETCQENTEYYFQAKTDMYIYKNYEHLKTVPLSSITTLDTFIALNFTLLENVDFKVIELYT 663 E C ENTE+YFQ +MY YKNY H+KT+P+ + TLDTF+ LN TL+EN+DF+VIELY+ Sbjct: 587 EICHENTEHYFQGGNNMYFYKNYRHVKTMPVGDVATLDTFMVLNLTLVENIDFQVIELYS 646 Query: 664 RDEKRLSNVFDIETMFREYNYYAQRVSGLRKDLLDLSTNRNQFVDAFGSLMDDLGAVGQT 723 R+EKR+S FDIETMFREYNYY QRV+GLR+DL DL+TNRNQFVDAFGSLMDDLG VG+T Sbjct: 647 REEKRMSTAFDIETMFREYNYYTQRVTGLRRDLTDLATNRNQFVDAFGSLMDDLGVVGKT 706

# Figure 11(b)

,		VVNAVSGVATLFSSIVTGFINFIKNPFGGMLMIIVVIGVLFAIYFLTKKTKIYETAPIKM V+NAVS VATLFSSIV+G INFIKNPFGGML+ ++ V+ + L +K K + P++M	
Sbjct:	707	VLNAVSSVATLFSSIVSGIINFIKNPFGGMLLFGLIAAVVITVILLNRKAKRFAQNPVQM	766
Query:	784	IYPEIDKLKEREGKSEIAPISEEELERIVLAMHIHQQNSHMETKTRKDPKDSI IYP+I + + + ++ PIS+ EL+RI+LAMH + + E+K T P D	836
Sbjct:	767	IYPDIKTITSQREELQVDPISKHELDRIMLAMHDYHASKQPESKQDEEQGSTTSGPAD-W	825
Query:	837	LTRAQNMLRKRSGYSNLKNAESVE 860 L +A+N+LR+R+GY LK +S E	
Sbjct:	826	LNKAKNVLRRRAGYKPLKRTDSFE 849	